SITE PREPARATION

1. SCOPE

The work shall consist of the clearing, grubbing, and/or stripping of all construction areas as shown on the Drawings, and removing and disposing of any trash and debris within the project limits. In addition, pipe removal and disposal shall be considered part of Site Preparation.

2. CLEARING AND GRUBBING

2.1. Silt Control: Install silt control barriers and temporary diversions as each 200 linear foot section of disturbance occurs. Construct temporary diversion ditches (perimeter dike & swale type) along the contours below areas to be disturbed during construction, prior to disturbance.

All disturbed ground must have a sediment control perimeter established at the end of each work day. This includes all temporary clear water diversions, silt barrier (bale & fence), and installation of silt traps where water would leave the project site or the disturbed area.

- **2.3.** Clearing: Trees, snags, logs, stumps, shrubs, rubbish, and garbage shall be removed from the cut and fill areas shown on the Drawings or as directed by the ENGINEER.
- **2.3. Grubbing**: Unless otherwise specified or directed, all stumps, roots, and root clusters having a diameter of 1 inch or larger shall be grubbed out to a depth of at least 1 foot below ground surface in all designated areas.

3. STRIPPING

Strip areas on which excavation or fill operations are to be performed of all vegetation, topsoil, and other organic material.

Stripped soil material shall be utilized or disposed of in a manner directed by the ENGINEER. Stockpiling of topsoil-type material will be required.

4. **DISPOSAL**

All trees cleared from the construction areas, including the waste areas, belong to the surface owners. Transport to and store trees on the individual surface owner's property at locations designated by each owner.

Dispose of all remaining cleared and grubbed material as noted on the Drawings, Special Conditions, and as directed by the ENGINEER in a manner not detrimental to the project or the inhabitants of the area. The main disposal method shall be burning and/or windrowing. The contract documents may require chipping for some projects. The CONTRACTOR will be responsible for determining and complying with local ordinances, regarding disposal, and/or burning of such materials.

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- **4.1.** Chipping: Chip trees up to 20-inch diameter as use as onsite mulch product or for erosion control. The chips may be no larger than 3 inch long and 1 inch wide.
- **4.2.** Windrowing: Create rolled piles generally not exceeding 10 tall and with breaks of greater than 20 feet for every 30 feet of windrowed material. Stack logs >8 inches in diameter in parallel piles in lengths <20 feet. Cut small tree tops and smaller trees into maximum <6 feet lengths and stack in separate parallel piles not to exceed 6 foot in height. Place tree stumps in front of the windrow in an upright position. Do not leave this material in a manner that will create erosion problems or an aesthetically unpleasing feature.
- **4.3. Burning**: Accomplish open burning in strict accordance with current Kentucky Division of Forestry rules and precautions and then only with the approval and under the direction of the ENGINEER. The ENGINEER'S permission to burn and/or his presence at the site shall not be construed as relieving the CONTRACTOR of any responsibility in the event damage occurs or a citizen's complaint arises. The COMMONWEALTH accepts no responsibility for damage or costs associated with burning operations. Before burning, obtain the consent of the landowner on which burning is to be performed, notify adjacent landowners, and use "reasonable precautions" to prevent the escape of fire to adjoining lands.
- 4.3.1. The "6:00 Burning Law": KRS 149.400 established February 15 through April 30 and October 1 through December 15 as the FIRE HAZARD SEASON. During these fire seasons, everyone is prohibited from burning anything capable of spreading fire within 150 feet of any woodland or brush land, except between the hours of 6:00 p.m. and 6:00 a.m., prevailing local time, or when the ground is covered with snow.

4.3.2. Precautions:

- a) WAIT UNTIL AFTER 6:00 P.M. if the weather has been dry and/or windy.
- b) Burn only WHEN THE WINDS ARE CALM and there is no chance of gusts.
- c) Burn ONLY ON LEVEL GROUND. On slopes and in gullies, a fire can escape more easily and make a fast run uphill.
- d) CLEAR THE AREA ten feet around where the fire will be and make sure the OVERHEAD AREA IS CLEAR.
- e) HAVE TOOLS HANDY: a water hose, buckets of water, rakes, hoes, shovels, wet sacks, etc. These can be used to keep the flames inside the cleared area, subdue the flames if the wind picks up or the fire grows too big, smother the fire, or put a control line around it if it is getting out of hand. (More sophisticated equipment may be required by the ENGINEER.)
- f) Have more than one person to watch the fire. Be sure THE FIRE IS ATTENDED at all times by responsible people.

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- g) Watch for SPOT FIRES. Cinders and sparks can carry through the air and start a "spot" of fire off in the distance.
- h) FEED THE FIRE SLOWLY. Do not burn everything all at once. This will control the level of burning and intensity of the fire.
- i) Stay with the fire UNTIL THE LAST SPARK IS DEAD OUT. Carefully inspect the burned area the next morning.
- j) IMMEDIATELY REPORT out of control escaped fire to the Kentucky Division of Forestry's local guard or ranger. The local fire department, county dispatcher, or state police may also help if you want to report a forest fire.
- 4.3.3. <u>Disposal</u>: Dispose of ash and unburned or partially burned debris in a neat and safe fashion, as approved by the ENGINEER.
- 4.3.4. <u>Restrictions</u>: Burning is not permitted in or adjacent to areas where coarse or fine coal/refuse materials are encountered.

5. MISCELLANEOUS

- **5.1. Debris Removal and Disposal**: Remove domestic household trash & mining debris from the project area (i.e. construction limits, project limits, work limits, etc.) and transport to an appropriate <u>permitted</u> landfill. The ENGINEER must preapprove the landfill. Transport all debris in a safe manner covered or otherwise secured as necessary to prevent loss in transit.
- **5.2. Pipe Removal and Disposal**: Remove and dispose of pipe noted on the Drawings and as directed by the ENGINEER to a <u>permitted</u> landfill. The ENGINEER must pre-approve of the landfill. Transport all debris in a safe manner, being covered or otherwise secured as necessary to prevent loss in transit.
- **5.3.** <u>Temporary Surface Water Diversion Ditches</u>: Construct temporary diversion ditches (perimeter dike & swale type) along the contours below areas to be disturbed during construction, prior to disturbance.
- **Temporary Out of Channel Stream Diversions**: must use one of the three approved methods: pipe diversion, sandbag/stone channel diversion, and/or fabric-based channel diversion. Do not construct any temporarily diverted channel on bare, erodible soil. No temporary diversion shall be permanent without a 401, 404, and other appropriate permits.

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